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(FILE 'HOME' ENTERED AT 19:20:30 ON 06 AUG 2009)

L1 FILE 'REGISTRY' ENTERED AT 19:20:45 ON 06 AUG 2009
STRUCTURE UPLOADED

L2 4731 SEA SSS FUL L1
L3 STRUCTURE UPLOADED

L4 96 SEA SUB=L2 SSS FUL L3

L5 FILE 'ZCAPLUS' ENTERED AT 19:24:12 ON 06 AUG 2009

L6 28 SEA ABB=ON PLU=ON L4
19 SEA ABB=ON PLU=ON L5 AND (PRD<=20040202 OR PD<=20040202)
D L6 1-19 IBIB HITSTR

FILE 'STNGUIDE' ENTERED AT 19:36:55 ON 06 AUG 2009

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 AUG 2009 HIGHEST RN 1173150-47-4
DICTIONARY FILE UPDATES: 5 AUG 2009 HIGHEST RN 1173150-47-4

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

FILE ZCAPLUS

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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6

FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

ZCPlus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

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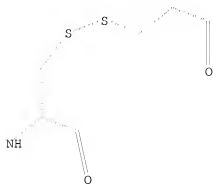
This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CPlus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

FILE STINGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 31, 2009 (20090731/UP).

L1

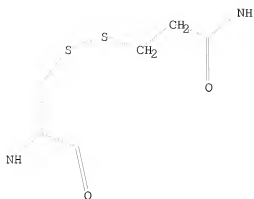
STR



Structure attributes must be viewed using SIN Express query preparation.

L2 4731 SEA FILE=REGISTRY SSS FUL L1

L3 STR



Structure attributes must be viewed using SIN Express query preparation.

L4 96 SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L5 28 SEA FILE=ZCAPLUS ABB=ON PLU=ON L4
L6 19 SEA FILE=ZCAPLUS ABB=ON PLU=ON L5 AND (PRD<=20040202 OR
PD<=20040202)



chain nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

1-2 2-3 2-5 3-4 5-6 6-7 7-8 8-9 9-10 10-11

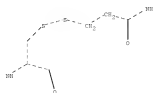
exact/norm bonds :

1-2 2-3 2-5 3-4 5-6 6-7 7-8 8-9 9-10 10-11

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-2 2-3 2-5 3-4 5-6 6-7 7-8 8-9 9-10 10-11 10-12

exact/norm bonds :

1-2 2-3 2-5 3-4 5-6 6-7 7-8 8-9 9-10 10-11 10-12

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS